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	APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/711,598 09/28/		/28/2004	Brian Clark	24.0914	5597	•
	23718	7590	09/29/2006		EXAMINER		
	SCHLUMB 200 GILLING		DILFIELD SE NE	ANDREWS, DAVID L			
MD 200-9					ART UNIT	PAPER NUMBER	
	SUGAR LAN	ND, TX 7	7478	3672			

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	Application No.		Applicant(s)	
	055 4 (1 0	10/711,	598	CLARK ET AL.	CLARK ET AL.	
	Office Action Summary	Examin	er	Art Unit		
		David A	ndrews	3672		
 Period for	The MAILING DATE of this communic Reply	cation appears on t	he cover sheet	with the correspondence a	ddress	
WHICI - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MASSIONS of time may be available under the provisions of time may be available under the provisions of time of this communication of the maximum states to reply within the set or extended period for reply within the set or extende	AILING DATE OF far the	THIS COMMUI event, however, may will expire SIX (6) M pplication to become	NICATION. The a reply be timely filed  ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	·	
Status						
1) 🗌 I	Responsive to communication(s) filed	l on				
·		b)⊠ This action is	non-final.			
	Since this application is in condition for	•		atters, prosecution as to th	e merits is	
•	closed in accordance with the practic	•	•	•		
Dispositio	on of Claims					
4)🛛 (	Claim(s) <u>1-11</u> is/are pending in the ap	plication.				
4	a) Of the above claim(s) is/are	e withdrawn from o	consideration.			
5) 🗌 (	Claim(s) is/are allowed.					
6)⊠ (	Claim(s) <u>1-11</u> is/are rejected.					
7) 🗌 (	Claim(s) is/are objected to.					
8) 🔲 (	Claim(s) are subject to restricti	on and/or election	requirement.			
Applicatio	n Papers					
9)⊠ ⊤	he specification is objected to by the	Examiner.				
10)⊠ T	he drawing(s) filed on 28 September	<u>2004</u> is/are: a)□	accepted or b	)⊠ objected to by the Exa	miner.	
A	Applicant may not request that any object	ion to the drawing(s)	be held in abey	ance. See 37 CFR 1.85(a).		
F	Replacement drawing sheet(s) including t	he correction is requ	ired if the drawi	ng(s) is objected to. See 37 C	FR 1.121(d).	
11)[ T	he oath or declaration is objected to	by the Examiner. I	Note the attach	ed Office Action or form P	TO-152.	
Priority ur	nder 35 U.S.C. § 119					
	cknowledgment is made of a claim fo ] Allb)	or foreign priority u	nder 35 U.S.C	. § 119(a)-(d) or (f).		
/—	. Certified copies of the priority d	ocuments have be	en received.			
2	Certified copies of the priority d			Application No		
3	Copies of the certified copies of				Stage	
	application from the Internation	al Bureau (PCT Ri	ule 17.2(a)).		-	
* Se	e the attached detailed Office action	for a list of the cer	tified copies n	ot received.		
	•					
Attachment(s	· ·					
	of References Cited (PTO-892)			v Summary (PTO-413)		
	of Draftsperson's Patent Drawing Review (PTo ation Disclosure Statement(s) (PTO/SB/08)	O-948)		o(s)/Mail Date f Informal Patent Application		
	No(s)/Mail Date 9/28/2004 and 1/4/2006.		6)  Other: _			

#### **DETAILED ACTION**

## Drawings

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. Figure 1 is also objected to for improper labeling. Each section must be labeled separately as Figure 1A, 1B, and 1C. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 32, 33, 34 and 39 in figure 3, and 62, 65 and 66 in figure 6. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and

informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "63" has been used to designate both the formation and the "near" detector in figure 6. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Specification

The disclosure is objected to because of the following informalities: on page 3, last line, the number "7,2000" should be --7,200--, and on page 4, line 1, the acronym "MTBF" is not explained. Appropriate corrections are required.

# Claim Objections

Claims 2-5 and 7-11 are objected to because of the following informalities: claims 2 and 7 have portions that read ".., a logging-while-drilling too,...", and need correction to read "a logging-while-drilling tool".

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spross et al. (US 5,451,779) in view of Van Den Bergh (US 5,452,772). Spross et al. disclose a downhole tool comprising an energy source (16 in figure 2), and a receiver (12 or 14 in figure 2), where the tool is a measurement-while-drilling tool (column 7, lines 19-27), where the tool is a gamma-ray density tool (column 7, lines 28-47), and where the energy source and receiver are disposed on a non-moveable part on the downhole tool (figure 2). Spross et al. do not disclose the feature of the tool having at least one moveable section disposed between the energy source and the receiver. Van Den Bergh, however, does disclose a downhole device which features a moveable section (116 in figure 10), where the activation mechanism is hydraulically operated (column 6, lines 1+), and where the moveable section is attached to the tool by a hinge (column 13, lines 27-35). The stated problem of reducing standoff effects in gamma-ray

measurements are discussed by Spross et al. including the solution of using moveable parts (column 1, lines 39-53) and as such the methods of claims 1-5 are also considered obvious over the physical components described above. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to combine the tools of Spross et al. and Van Den Bergh in order to further reduce the standoff effects by blocking the radiation through that section with moveable parts well known in the art.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wraight (US 5,017,778) and Nasr et al. (US 6,179,066) also disclose logging systems which use moveable parts against the borehole wall.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Andrews whose telephone number is (571) 272-6558. The examiner can normally be reached on Monday thru Friday, 8am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell can be reached on (571) 272-6999. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

David Bagnell
Supervisory Patent Examiner
Art Unit 3672

DLA 9/20/06

Jennifer H. Gay